



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **02080476 A**(43) Date of publication of application: **20.03.1990**(51) Int. Cl **C09J 4/04**(21) Application number: **63234358**(22) Date of filing: **19.09.1988**(71) Applicant: **KYOWA ELECTRON INSTR CO LTD****TAOKA CHEM CO LTD**(72) Inventor: **SATO TOSHIMI****INAMURA TADASHI****(54) INSTANTANEOUS ADHESIVE FOR STRAIN GAUGE****(57) Abstract:**

PURPOSE: To obtain the title adhesive improved in curing speed and low- temperature adhesiveness by using an ethyl α -cyanoacrylate resin as a base, adding a small amount of a cyanoacetic ester and ethyl 2-cyanopropionate to the base and further adding various esters to the mixture.

CONSTITUTION: A strain gauge 9 is composed of a gauge base 1, a grid 3, a gauge tub 4, a gauge lead 5 and a laminated film 6, and this gauge 9 is bonded to the object 8 to be measured with an instantaneous adhesive 7. This adhesive 7 is prepared from $98.0 \pm 1\%$ ethyl α -cyanoacrylate resin, about 0.1% cyanoacetic ester and ethyl 2-cyanopropionate, and various esters to form a solution which can be cured within a short time by rapidly reacting with a small amount of water. According to the instantaneous adhesive for strain gauge, the curing speed and low-temperature adhesiveness are much better than those of the con-

ventional one, and the properties such as elongation, tensile shear strength, impact strength, fatigue life, moisture resistance and insulation resistance can be markedly improved.

COPYRIGHT: (C)1990,JPO&Japio

